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Interior all application No.
PCT/JP03/16160

			101/01	703/10100		
A. CLASS Int.	SIFICATION OF SUBJECT MATTER Cl ⁷ H01L23/12, H05K3/46					
According t	to International Patent Classification (IPC) or to both n	national classification and	I IPC			
	S SEARCHED					
Minimum d Int.	ocumentation searched (classification system followed C1 ⁷ H01L23/12, H05K3/46	by classification symbol	is)			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004						
	lata base consulted during the international search (nan	ne of data base and, when	e practicable, sear	rch terms used)		
Category*	Citation of document, with indication, where a	ppropriate, of the relevan	ıt passages	Relevant to claim No.		
Y	JP 11-74636 A (NGK Spark Plu 16 March, 1999 (16.03.99), Par. Nos. [0025] to [0046]; (Family: none)	•		1-8		
Y	JP 08-125331 A (Toshiba Corp 17 May, 1996 (17.05.96), Full text; Fig. 2 (Family: none)),	·	1-8		
Y	JP 2001-274554 A (Toshiba Co 05 October, 2001 (05.10.01), Full text; Figs. 1 to 21 (Family: none)	orp.),		1-8		
X Further documents are listed in the continuation of Box C. See patent family annex.						
* Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 16 March, 2004 (16.03.04)		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 30 March, 2004 (30.03.04)				
	nailing address of the ISA/ nese Patent Office	Authorized officer				
Facsimile No		Telephone No.				



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ategory*	Citation of document, with indication, where appropriate, of the relevant passages JP 63-181662 A (Oki Electric Industry Co., Ltd.), 14 August, 1986 (14.08.86), Full text; Fig. 1 (Family: none)			Relevant to claim No.	
Y					
A	JP 10-70369 A (Matsushita Electric Works, Ltd 10 March, 1998 (10.03.98), Full text; Fig. 1 (Family: none)	.),	1-	8	
A	JP 2001-68810 A (Dainippon Printing Co., Ltd.) 16 March, 2001 (16.03.01), Full text; Figs. 1 to 11 (Family: none)		1-	8	
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